



Volume 64

March 1998

Issue 633

HI-Q

THE LAKEHEAD AMATEUR RADIO CLUB JOURNAL

LARC, Suite 184, 1100C Memorial Ave., Thunder Bay, Ontario, Canada, P7B 4A3

Sibley Ski Tour this Month March 7, 1998

Be there or be square, thanks from Old One Boot for all the Volunteers that are working as Radio Operators in upcoming Sibley Ski Tour. Weather permitting you will all be out on the Sibley Peninsula doing your best to insure a safe ski for all skiers, 73 & 88's

Another New Call Sign To Play With !

Ine Rehfuss, VE3OTV now has a new 2 letter call sign. It is now VE3RH. I guess we can have some fun at her call too eh! To start I can think up "Radio Hound-dog" "Rural Ham" "Real Ham" "Rowdy Housewife" What can you come up with? "Old One Boot"

those ever important contacts with other Sparks, Brownies, Guides and Rangers. Twenty-one young girls and their leaders sat in front of the Kenwood waiting to make their first contact, and what a contact it was.

We worked VE1GGC (Girl Guides of Canada), Pete and the gang in Nova Scotia. After this we talked to a station in Virginia Beach Virginia, one in Halifax Nova Scotia, and to VA3DPB Don and the crew in Thunder Bay on 146.520 simplex. When we were done with Don he went to twenty metres and worked a station in Alberta, and we went to forty metres and listened to a station in Kincardine, Ontario. I worked a station from France just before taking the station down for the day to show the girls how easy it can be at times to work distant stations. The girls have lots of fun each year that this is put on. They make many new penpals and friends this way. They also earn a patch for getting on the air and having a chat or just to say hello. By the end of the day the ones that started out mike shy are the ones that you have to pull away from the radio, that is how much they enjoy it. So till October when we do J.O.T.A, thanks to all out there for their help and being there to talk to. Fred Lesnick, VE3FAL

Attention All Coffee Hounds !

In appreciation for our continued nightly business the Java Hut has graciously invited all Amateur Radio Operators to visit that establishment on Tuesday evenings between 9:30 and 10:30 for coffee. On this night all attending Amateurs names will be put in a hat, and a name will be drawn by the Java Hut for a free meal at the Java Hut. 73 Jan, VA3JRS.

GOTA Guides On The Air

Well GOTA was another success in Thunder Bay again. Fred VE3FAL set up a portable station at the Blake Hall on Hwy 61, from 10:00 a.m till 2:00 a.m on the morning of February 21st 1998. Band conditions were fantastic if you were a contestor. Europe was banging in on all bands, and really loud on 15 metres. But despite the contests on the bands we were able to make

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1997/1998 LARC**Founding President**
P. J. (Pat) O'Shea VE3FW

LARC maintains the Club call VE3FW
to honour the memory of our first
President Mr. Pat O'Shea.

Senate

Bill Roberts VE3ARN
Keith Fiske VE3JQ
Bert Lambert VE3BKY
Ray Greer VE3CH
Bill Klemacki VE3AJ
Dave Kimpton VE3AVS

Executive Board

President:	Ian Mellis	VA3RIM	577-1628
Vice Pres:	Ed Baumann	VE3SNW	622-1216
Secretary:	Norm Bell	VE3XRC	577-9316
Treasurer:	John Watson	VE3GTX	683-3199
Directors:	Judy LeFevre	VA3EAP	
	Sam Shonias	VA3SAM	
	Bob Hanson	VE3RVA	767-6924
	Jan Sokoloski	VA3JRS	344-3222
Past Pres:	Terry Stewardson	VE3TKA	577-9439

Appointments

Mem. Sec.:	John Watson	VE3GTX	683-3199
Hi-Q Editor:	Wayne Letang	VA3WRL	344-9759
Emergency Coordinator:	Randy Gottfred, VA3GOT.....		939-2310

Club Repeaters

VE3YQT 147.060 - OFFSET
VE3TBR 146.820 - OFFSET

Next Meeting
March 12, 1998

Meetings are held at 7:30 pm every second Thursday of each month at Confederation College in room 207B in the McIntyre Building

Following a delicious buffet enjoyed by 45 members and guests, a short business meeting was held.

Minutes of the previous meeting:

The minutes of the previous meeting held January 8, 1998 were published in detail in the February edition of "HI-Q" and distributed to all members.

Motion: moved by VE3AVS Dave Kimpton and seconded by VE3AJ Bill Klemacki that the minutes be accepted as distributed.

Carried.

Treasurer's Report: VE3GTX, John Watson

Balance as January 1, 1998		\$2,238.26
Income: Bank Interest	<u>\$0.19</u>	\$0.19
Expenses: Telephone		\$63.26
Mail Boxes Etc.		\$122.56
AC Membership		\$39.95
Call Book	<u>\$91.98</u>	\$317.75
Balance as of January 31, 1998		\$1,920.70

Motion: moved by VA3WRL Wayne Letang and seconded by VA3JRS Jan Sokoloski that the Treasurer's report be accepted.

Carried.

Auditor's Report: VE3PD Pat Doherty announced that the audited statement would not be available until the March meeting.

Call Books: are now ready for sale. VE3TKA, Terry Stewardson has put a lot of work into the call books.

Emergency Coordinator: VA3GOT, Randy Gottfred has accepted the position.

Life Member: due to VE3EDW Hugh Elliott becoming a silent key, a vacancy became available on the Senate of the Lakehead Amateur Radio Club. VE3SNW, Ed Baumann had the privilege of bestowing life membership and a senate position to VE3AVS, Dave Kimpton. Dave became a "Ham" in 1957 and has been a member of the Club since 1960 holding various positions over the years. As a new senator, it was only fitting that compliments of Thunder Bay Travel, VE3GTX John Watson presented Dave with a reservation for a trip to Mexico after the ski season is over.

Adjournment: moved by VE3AVS Dave Kimpton and seconded by VE3AJ Bill Klemacki that the business meeting be adjourned.

Carried.

50/50 Draw: winner of the 50/50 draw was VA3MOB, Moe Bell.

Guest Speaker: VE3RVA Bob Hansen introduced the guest speaker, Terry Wilson. As a hobby Terry, using a metal detector has found many interesting and valuable artifacts over the past 30 years including several gold rings which his wife now has. After showing a short video on a "find" in England using a metal detector, Terry invited the members to view a number of specimens he has found over the years.

Following Terry's presentation, several draws for door prizes were made including a one year membership to Radio Amateurs of Canada which was won by VE3DWP, Dan Darling.

CW Poem by W6WOW.

CW has served us quite well, So on it's demise I won't dwell.

Now it's up to that new satellite, To see that the message is sent right.

If CW on ships has to end, On the ham bands it still is our friend, Ensuring the message gets through, By a system that's tried and not new.

For many years, CW had no equal and satellites are now just a sequel.

So let's all pray when the chips are down, The up-link's are up and the down-link's down!

Now satellites are up there in space, Hopefully each in its proper place.

But if system choice were left up to me-I'd stake my life on my CW key!

by W6WOW

(From the 10/1997 issue of FISTS.)

Hints and kinks from Ham's *Extra Space* around the world and how to learn or expand your morse code skills

Practicing higher speeds

Try to run at higher speed than you are used to do. If you can copy 70 to 80% adjust your speed to 1 or 2 WPM (words per minute) higher. It's the hard way but it can work out fine. Wilko, PA3BWK

Practicing sending

Practice SENDING very fast but ACCURATELY - this in itself will improve your ability to copy fast code. Also use a tape-recorder to tape your sending, and then try copying it a week or so later. One final tip - throw the pencil away, copy in your head! Try to run at higher speed than you are used to do. William, K1WD

Learning sounds

Learn the sounds of words not letters. Start with small two and three letter words first. Bob Lanning, W6OPO

Practice CW

Practice CW regularly, preferably daily, while learning. Keep the sessions short. When you're getting 90% of it increase the speed. And, most important of all, ENJOY! Michael Crestohl, VE2XZ, W1RC

Sending at top speed

Send at speeds that you are comfortable with. It is most annoying for experienced ops to listen to someone trying to send at speeds he is not proficient at. Speed will come naturally with practice at slower speeds. Robert Hill (John), W6YF

A little extra space between words helps a lot when copying at or beyond your basic CW speed limit. Frank Merritt, VE7FPM

Practice, Practice, Practice

Always try to copy speeds just above your comfort level. When you then slow the speed down, it will sound easy. George Brien, VE1NK

Having little conversations

Begin practice sessions by sending "with wild-abandon" send as quickly as you can think. Have little conversations with yourself. e.g. "Hi, how are you today?" "I am doing quite well thank you." etc. Learning to connect the code with how you think helps more than you might imagine. Ernie Thomas, N3PXF

Using a tape recorder

The greatest aid to improving your sending is a tape recorder. The next time you are on CW, turn on your tape recorder and record your sending, it is a humbling experience !!! Are you sending "H" for "S" ... "6" for "B" ?? Do you run EVERYTHING together in one continuous stream ?? Listening to your sent CW on the recorder will help improve your CW, try it. After over 40 years on the air we still record our CW, it is easy to fall into bad sending. Whitey, K1VV

Marine Radiotelegraph Stations

As of this writing (04/09/97) there are still plenty of marine radiotelegraph stations in the 4, 6, 8, 12, 16 and 22 MHZ bands. These stations send using machines, and you may be surprised at how fast you can copy properly sent cw. Also, these stations often send traffic lists, which repeat the call letters of the station being called, allowing you a quick accuracy check. Finally, since these stations are located all over the world and send their calls frequently, they are an ideal

way to check propagation and practice code at the same time! cu on 40m es 30m! 73, Dan. Dan Zabcik, WB5YUZ

Practice hint

Learning Morse? Never use a character speed of less than 18-20 wpm, maintain 80% copy, practice little and often (15-20 mins per day) It works ! Simon Langlois, GJ4ODX

Avoid too much practice.

a

Avoid too much practice. This will avoid frustration. Try what is known as distributed learning. A very little at a time, but learn it well. In other words, small doses frequently.

David R. Balla, KW4N

(downloaded from the RAC page on CW)

From Waynos' Glossary of absolutely enlightening electronic terms

wave antenna-Also called a beverage antenna. A directional antenna composed of parallel horizontal conductors one-half to several wavelengths long, and terminated to ground in its characteristic impedance at the far end.

Western Union joint-A strong highly conductive splice made by crossing the cleaned ends of two wires, twisting them together, and soldering.

Small-signal, open-circuit, reverse voltage transfer ratio-In a transistor, the ratio of the ac input voltage to the ac output voltage when the ac input current is zero.

(the last one was for you Dave, Wayno)

Dear Wayne and fellow Lakehead area Radio Amateurs:

As the 1998 coordinator for the Central Ontario Amateur Radio Fleamarket (Guelph & Kitchener Fleamarket), I wish to advise everyone of our NEW LOCATION and to invite you to our upcoming 24th annual Hamfest and Fleamarket, at the Fergus Community Centre, on Saturday, June 13th, 1998.

As mentioned, the Hamfest will be held in a new location this year just a few short miles north of Guelph in the Fergus and District Community Centre where we have a much larger facility with plenty of parking right at the door PLUS lots of tailgate space.

If your club would like to distribute flyers for the upcoming event, you can download our 98 Flyer in Adobe Acrobat format at <http://www.kwarc.org/fleamarket> or just send me an email at the address below requesting the number of flyers requested.

COARF is also soliciting speakers for this years event. We will have space for two simultaneous forums so if you or one of your club members is interested in sharing their expertise on a part of this great hobby please drop me a line.

I look forward to seeing you this June 13th so please come on out and help us make this fleamarket a great success.

best 73

Bill Smith, VE3WHS
E-mail: fleamarket@kwarc.org

website: <http://www.kwarc.org/fleamarket>

Public Service

by
Mike Nawrocki

Event number two of the year has just been completed, Norm VE3XRC and Terry VE3TKA provided the necessary assistance Friday evening at the Thunder Bay Winter Carnival. Hope Terry's hearing has returned to normal as he was the shadow for the people setting of the fireworks and the noise level there was bit high. Anyone doing this next year should probably bring a set of ear plugs. On February 6, Norm bell, Randy Gottfred and Mike Nawrocki met with Thunder Bay Fire Chief Jim Hamer to review the position of Amateur Radio Emergency Services. As reported in last months HI-Q, a new executive for ARES has been put into place, and re-organization has begun. It appears that arrangements may be made with the Fire Department to have official I.D. cards made for all our volunteers, and training facilities may be made available at the Vickers St. Fire Hall. There will be more news on this as things begin to take shape. The Sibley Ski Tour is upcoming, twelve people have volunteered their services for this event and hopefully El Nino will leave us enough snow to be able to run the event. Either that , or we might get a repeat of last year. Technology is wonderful when it works, have had to deliver this by hand as my e-mail decided to die. Appears some files have been destroyed or corrupted in my windows, so am now reduced to snail mail. 73 Mike, VE3ZG

LARC ski night was cancelled due to rain. Next year don't wait for the LARC Ski Night. Come out and ski anytime. Skiing has been great this winter.

VE3AVS Named as Senator

There are two sides to everything. In this case one of our members became a silent key, and left a vacancy on the Club's Senate. The flip side of that sad occasion is that the President asked me to investigate the membership and help chose a new senator.

I thought that would be a pretty easy job -- no sweat. But, when I started looking around I started to panic. There were just too many good choices! How do you chose just one?

What kind of criteria do you use?

Unable to come to a conclusion myself, I started asking the membership. By the time the executive meeting came around I had a hat full of names for consideration, but one name seemed to bubble up whenever I spoke to fellow hams. When I presented his name to the executive the response was "of course, what took you so long?"

It was a pleasure and an honour to present Dave Kimpton, VE3AVS, to the membership as the new Senator at the Annual Dinner (we tried to keep it "secret" and hope it was a pleasant surprise). As a Senator, the Lakehead Amateur Radio Club will benefit from his many years as an amateur, and an educator. The executive of the club does not operate in a vacuum, and relies on the wisdom and experience of the Senate for guidance. It is a measure of Dave's stature in the amateur community that so many of you felt he deserved the honour.

I've deliberately not listed all of Dave's accomplishments, that has already been done in a previous issue of HI-Q, and 'WRL tells me he is low on ink. I would like to say thanks to Terry VE3TKA who printed and framed the certificate. Definitely worth a coffee next time you see him.

So now remember, when 'AVS dispenses advice at the next coffee call...he does so with authority! Congratulations from all of us, Dave.

(Ed Baumann, VE3SNW)

Good Morning

There has not been a RAC report in a while since most activity was of a minor nature with some items being covered in various newsletters. Industry Canada is looking at making some major changes in the way they address the amateur community and I have deep concerns about the future of amateur radio.

RAC Report March, 1998

Pat Doherty VE3PD

Farrell Hopwood, (Hoppy, VE7RD) has written a letter to Mr. Manley expressing outrage at Industry Canada's handling of the delegation process. He is hoping to meet with the Minister to discuss the actions of Industry Canada officials.

As stated in his letter Radio Amateurs of Canada, with the encouragement of Industry Canada, spent four years pursuing the delegation process, at considerable cost and unstinting effort by volunteers. It was hoped that with the process Canadian Amateurs through their national organization would be more in control of their own destiny.

Industry Canada conducted a poll asking Amateurs if they wanted a free ride? Does Industry Canada want to hand us a pretty piece of paper at examination time, and then tell us to go away and not bother them? Do we get to the point where maybe we don't need the examination, we just go in and ask for our pretty piece of paper and then go away? Are we being marginalized to the point where we are just a nuisance, just another GRS group? Do we want to be considered a bunch of free loaders who are occupying spectrum that could be used more efficiently by commercial interests?

Maybe the above questions are a bit extreme, maybe not. There certainly seems to be a drive by Industry Canada to make us minor players in the radio spectrum. The increasing lack of enforcement is starting to show on some of the bands, bad language, deliberate QRM, amateurs operating outside of the agreed frequencies, amateurs operating on frequencies they are not

entitled to, VE's in the US operating outside of the US phone frequencies, the list keeps building.

Has anyone heard Industry Canada compliment the Amateur Service on the excellent job they did in the recent ice storms, the flooding in Quebec. There is no question that communications would have broken down without the resources of amateur radio. Amateurs may get praised during the emergency operations but there is faint praise afterward.

I think we are a valuable resource that can and does contribute. While amateur radio is just a "hobby" we all know it is much more. We make a contribution to our communities and our society. We don't need a free ride, we need an administration that recognizes amateur radio for the valuable resource it can be, an administration that is willing to help amateurs regulate their radio spectrum, an administration that promises a responsible future for amateur radio, not one that is looking to sweep us under the rug. That free ride may have a very high price later on.

Following is the letter to the Minister from Farrell Hopwood (Hoppy, VE7RD)

February 17, 1998

The Honourable John Manley, PC
Minister of Industry
235 Queen Street
Ottawa, Ontario
K1A 0H5

Dear Mr. Manley:

More than forty thousand Radio Amateurs across Canada were shocked, dismayed and outraged with the November announcement that your officials had abruptly cancelled a four-year delegation initiative that was nearing the implementation stage. Radio Amateurs of Canada had assigned top level experienced people and expended a large amount of time and money over the past four years to ensure the success of this undertaking. All projections, including the encouragement of Assistant Deputy Minister

Binder, gave us every confidence that delegation would become a reality.

In 1989, we began bolstering our resources to better respond to regulatory matters. A critical and major step, at the urging of your officials, was the merging of two associations into one national organization, Radio Amateurs of Canada. An immediate benefit was the establishment of a joint Industry Canada - RAC Canadian Amateur Radio Advisory Board.

At the first meeting of the Advisory Board, in September 1993, IC officials proposed formation of a joint IC-RAC working group to develop a business case for delegation of certain administrative functions to RAC. We immediately responded by assigning RAC members with previous high level government and business background to work with your officials. RAC gave this project top priority. In every instance we met target dates, developed working data in a timely manner and cooperated completely with Industry Canada officials. RAC also incorporated a separate subsidiary organization to administer delegated functions in an autonomous and objective manner. The delegation concept was enthusiastically embraced by thousands of Radio Amateurs across Canada.

You can readily understand that RAC found it appalling and alarming that IC officials suddenly, without warning or explanation, announced termination of the delegation initiative. We were further discouraged to learn that a survey, directly polling individual Radio Amateurs had been commissioned, bypassing the very organization that your officials had encouraged us to form. It was indicated that the results of the survey and other considerations would ultimately shape Industry Canada's future administration of the Amateur Radio service. This abrupt, but obviously premeditated withdrawal has seriously shaken RAC's confidence in your officials, particularly in light of the ambiguous reasons since advanced for cancelling the delegation plan.

Precipitous termination of the delegation initiative has far reaching implications not

only for Radio Amateurs of Canada as an organization, but also for the Amateur Radio service generally. It is a matter of such deep concern and apprehension that I am compelled on behalf of the Amateur Radio community to seek a meeting with you at your earliest convenience.

Yours very truly,

J. Farrell Hopwood
President and Board Chair
Radio Amateurs of Canada, Inc.

Patrick G. Doherty
RR 1 - 10035 John Street Road
Murillo, Ontario, P0T 2G0

Phone: (807)935 2253
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email: ve3pd@rac.ca
Radio Amateurs of Canada home page:
<http://www.rac.ca>
Pat Doherty, VE3PD home page:
<http://www.tbaytel.net/pdoherty/ve3pd.htm>
Lakehead Amateur Radio club:
<http://www.tbaytel.net/srobb/larc.htm>
Northern Ontario Swap Net:
<http://www.tbaytel.net/pdoherty/nontsale.htm>

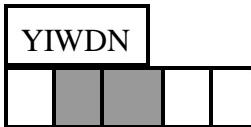
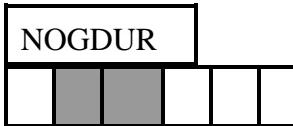
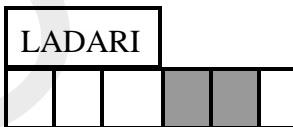
White space enjoy!

HAM PUZZLER

By Dave VE3AVS

Unscramble the four jumbled words. Then arrange the shaded letters to form a word or words associated with the call sign shown below. Answer in next month HI-Q.

VE3UA



February answers: VALUE, SENDER, TESTS, FROSTY

(Apologies for February error: ESSTS should have been ETSTS).

VA3JRS = SAFETY VESTS

See you all next month....73.

Recommended Repeater Operating Procedures

1. Use simplex wherever possible freeing the repeater for necessary uses.

2. Monitor the repeater (listen) or determine if the repeater is in use, and if there are any peculiarities in its operation. After listening for a few seconds, identify, un key and listen to see if it was quiet for a reason, and to allow someone to let you know if there is a reason not to continue (low audio, low signal strength, etc). Then, if all OK, proceed.

3. Don't break into a contact unless you have something to add. Interrupting is no more polite on the air than it is in person. Interruption without identification constitutes malicious (and illegal) interference.

4. Use the minimum power to key up the repeater. To make contact, simply indicate that you are on frequency . For example "VE1ZZZ monitoring". Do not kerchunk.

5. Remember amateur radio transmissions are being monitored by many non-hams with scanners. Watch your language and your manners. Please don't bring disrepute on the Amateur Radio Service.

6. Repeaters are intended to facilitate mobile and portable operation. During rush hours, base stations should relinquish the repeater to commuting mobiles. Some repeater owners have strict rules requiring this.

7. Keep transmissions short and thoughtful. Do not monopolize the repeater. Pause between transmissions to allow other amateurs to identify themselves if they wish to use the repeater. Pausing also allows the timer to reset, avoiding a "time-out"

8. Identify legally. In Canada that means at the beginning and end of a contact and every thirty minutes of operation.

9. Repeaters are installed and maintained at considerable expense and inconvenience. Regular users of a repeater should

financially support the individual or club owner in their efforts to keep the repeater working properly.

Autopatch Operation

1. Many repeaters are equipped with autopatch facilities which, when properly accessed, connect the repeater to the telephone system to provide a public service.

2. Because of past abuses, use of the autopatch is often restricted by the local repeater owners, but may be available to visiting amateurs on a courtesy basis. Never use an autopatch to avoid a long-distance call, or for any commercial purpose. Even if your use is marginally legal, the repeater owner has the right to terminate your call.

3. Listen for a few seconds to see if the repeater is in use, then identify, un key and listen to see if it was quiet for a reason, and to allow someone to let you know if there is a reason not to continue (low audio, low signal strength, etc). Then, if all OK, proceed.

4. To use the autopatch, first identify yourself "VE1ZZZ for the autopatch", key in the autopatch access code and the telephone number you are calling. Keep your call short to avoid "timing out" the repeater. You may have to remind the person you have called that you can't hear them when you are talking. Keep the call brief.

5. When your call is completed, key in the autopatch OFF code, and identify again "VE1ZZZ clear of the autopatch"

Linked Repeater Operation

a

Permanent Linked Repeaters

a

1. Where repeaters are permanently linked, your transmissions will be heard on the outputs of all the linked repeaters.

2. Operation of a permanently linked repeater is the same as a normal repeater, except that the coverage is much greater.

Code Access Linked Repeaters

1. Linking codes are required to access the code access linkable repeaters.

2. To use a link, identify "[local repeater call sign], [your call sign]", and then key in the local repeater's link ON codes. When the repeater identifies, identify the repeater you wish to call "[distant repeater call sign], [your call sign]", and then key in the distant repeater's link ON codes. When that repeater identifies, you can then call any station in that repeater's coverage area.

3. You will be heard in the coverage areas of both the local repeater and the distant repeater.

4. When you have finished your contact, you should identify again, and then turn off the links in reverse order, using the distant repeater's link OFF codes, followed by the local repeater's link OFF codes (**from the RAC web page**)

I know that you believe that you understand what you think I said, but I am not sure you realize that what you heard is what I meant. (Anon)

Nominee#5 of the 1997 Darwin Awards [Bloomberg News Service, 25 March]

A terrible diet and a room with no ventilation are being blamed for the death of a man who was killed by his own gas. There was no mark on his body but autopsy showed large amounts methane gas in his system. His diet had consisted primarily of beans and cabbage (and a couple of other things). It was just the right combination of foods. It appears that the man died in his sleep from breathing the poisonous cloud that was hanging over his bed. Had he been outside or had his windows been opened, it wouldn't have been fatal. But the man was shut up in his near airtight bedroom. According to the article, "He was a big man

with a huge capacity for creating this deadly gas." Three of the rescuers got sick and one was hospitalized.

(Geewhiz all I kind think of is Field Day 1997 and Bills' Stroganoff. "Old One Boot")

Some abbreviations for radio telegraphy

A

abt-about, ads-address, agn- again, ani-any, ans- answer

B

b4-before, bsnu-be seeing you, bd-bad, bk-break, bth-both, buro-bureau,

C

c-yes, cb (1)-callbook, cba- callbook address, cfm-confirm, cl-closing, clg-calling, clix-key-clicks, cmg-coming, condx-conditions, congrats-congratulations, cpi-copy, cq-general call, crd-card, cs-callsign, cuagn-call you again, cud-could, cul-call you later, cuz-because

D

de-from, dr-dear, dsw-see you again (russian), dwn- down, dx-long distance

E

el-element, enuf-enough, es-and, eve-evening,

F

fb-fine business, fd-field-day, fer-for, fm-from, fone-telephony, fq-frequency, freq-frequency, fwd-forward

G

ga-good afternoon, gd-good day, ge-good evening, gg-going, gld-glad, gm-good morning, gn-good night, gnd-ground, gud-good

H

hi-high, hi-laughter, hpe-hope, hq-headquarters, hr-here, hr-hour, hrn-heard, hrs-hours, hv-have, hvg-having, hvy-heavy, hw-how, hw?-how did you copy?,

I

i-I repeat, info-information, J ja-japan,

K

k-invitation to transmit, klix-keyclicks,

L

lid-poor operator, lis-licensed, lp-long path, lsn-listen, lw-long wire,

M

mgr -manager, mi-my, mni-many, msg-message, mult-multiplier, N n-no, n-9 (as in RST-report), nfd-national fieldday, nil-nothing, nr-number, nr-near, nw-now

O

ob-old boy, oc-old chap, ok-correct, om-old man, onli-only, op-operator, opr-operator, ot-old timer, ow-old woman

P

pse-please, pwr-power, px-press

R

r-received OK, rcvd-received, rcvr-receiver, rig-radio equipment, rx-receiver

S

sa-say, sed-said, shud-should, sig-signature, sigs-signals, sk-silent key, sked-schedule, sn-soon, sp-short path, sri-sorry, stn-station, sum-some, swl-short wave listener

T

temp-temperature, tfc-traffic, thru -through, til-until, tks-thanks, trbl-trouble, trx-transceiver, tt-that, tu-thank you, tx-transmitter, txt-text,

U

u- you, ufb-ultra fine business, unlis-unlicensed, up-upward, ur-your, urs-yours,

V

vert-vertical, vx-vieux (french), vy-very,

W

watsa-what do you say, wid-with, wkd-worked, wkg-working, wl-will, wrk-work, wud-would, ww-would, wx -weather,

X

xcvr-transceiver, xmas-christmas, xmtr-transmitter, xtal-crystal, xyl-wife,

Y

yf-wife, yl-young lady, yr-year

Z

z-zulu-time (=UTC),

Once again, thanks for all the input in this issue if the HI-Q. HI-Q Editor, Wayne, VA3WRL.